

Integrating Work Group Goods Movement Action Plan November 17, 2006 Sacramento



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#### **Goods Movement Action Plan**

# <u>Key Principle</u> "Simultaneous and continuous improvement"

ARB Emission Reduction Plan identifies air quality strategies to reduce existing impacts and mitigate growth



#### **Overview**

- Plan goals
- Progress on plan strategies
- Local focus
- Updates to health analysis
- What's next

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# **ARB Goals for Goods Movement**(April 2006 Emission Reduction Plan)

#### Reverse growth in emissions

 By 2010, reduce emissions as much as possible, at least to 2001 levels

#### Reduce diesel PM risk

- Rapid reduction in community risk
- By 2020, reduce statewide risk 85%

Attain federal PM2.5 & ozone standards



## Progress on Plan Strategies

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## **Ships** - Accomplishments

- √ Auxiliary ship engine fuel rule adopted
- √ Cruise ship incineration rule adopted
- √ Lower vessel speeds in S. California
- √ Retrofit demonstration in progress





## **Ships** - Upcoming through 2007

#### California

- Main engine fuel rule (late 2007)
- \$\text{Shore power rule (late 2007)}
- Speed reduction rule (mid-2007)



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## **Ships** - Upcoming through 2007

#### National/international

- IMO review of ship and standards
- SOx Emission Control Area (SECA) technical analysis for North America
- US EPA new main engine proposal
- US EPA new auxiliary engine standards



## **Harbor Craft** - Accomplishments

- ✓ Low sulfur diesel used in South Coast
- ✓ Draft harbor craft rule released
- √ Engine replacement continues



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# **Harbor Craft** - Upcoming through 2007

- Harbor craft rule (mid-2007)
- US EPA new harbor craft standards

engine







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#### **Trucks** - Accomplishments

- ✓ In-use compliance rule adopted
- √ Border trucks rule adopted
- √ Low sulfur diesel fuel used
- √ Cleaner 2007 engines introduced
- $\checkmark$  Inspections in impacted communities



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## **Trucks** - Upcoming through 2007

- Private truck fleets rule (mid-2007)
- Port trucks rule (late 2007)



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## **Locomotives** - Accomplishments

- ✓ Low sulfur diesel fuel requirements
- ✓ Tier 2 locomotive use increasing
- √ Cleaner switchers being introduced
- √ Technology demonstrations underway





## **Locomotives** - Upcoming through 2007

- Railyard risk assessments
- US EPA standards for new and existing locomotives







# **Cargo Handling Equipment -** Accomplishments

- ✓ Diesel equipment rule adopted
- √ Gas forklift rule adopted
- ✓ Low sulfur diesel fuel used
- ✓ Port fleet upgrades continuing





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Local Focus



#### **Localized Health Risk**

- New risk assessments underway
  - Railyards & adjacent communities
  - Maritime Port of Oakland
  - Warehouse distribution center assessment study
- Wilmington community project

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## Railyard Risk Assessments

#### Phase I

UP **BNSF** 

Commerce/Eastern Commerce

**LA** Transportation Hobart

Center Richmond

Mira Loma Stockton

Stockton Watson/Wilmington







Local Advisory Group exploring community concerns

Associated HarborAir Monit





#### Southern California

- San Pedro Bay Ports Clean Air Action Plan for Los Angeles and Long Beach
- Multi-County Goods Movement Action Plan



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#### Northern California

- Port of Oakland and Bay Area Air District
- Northern California Trade & Mobility
   Corridor



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### **Updates to Health Analysis**

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## Health Impacts - Background

- **SAnalysis in Emission Reduction Plan**
- New PM studies on premature death
- Sulfate PM impacts to be assessed
- Board's charge -- reevaluate effect of new health studies and estimate impacts from sulfate PM



## Health Impacts - Status

- Public process to update PM-premature death relationship on-going
  - New factor based on U.S. EPA's Expert Elicitation for PM
  - Draft ARB report late November, followed by public and peer review
- Sulfate impacts to be based on SOx
   Emission Control Area (SECA) analysis

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What's Next



# **Transitioning to New SIPs**Focus on South Coast & San Joaquin Valley

- Goods movement is core of strategy
- PM2.5 (2014): Ships, trucks, and locomotives key to SOx/dPM/NOx cuts
- Ozone (2020+): Trucks, ships, and locomotives key to NOx cuts
- Both areas may need additional, targeted
   NOx reductions for trucks

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# Goods Movement ARB "To Do" List

- Develop/enforce ARB rulemakings
- Implement \$1 billion funding program
- Push federal/international standards
- Support local initiatives
- Conduct risk assessments
- Update health impacts analysis